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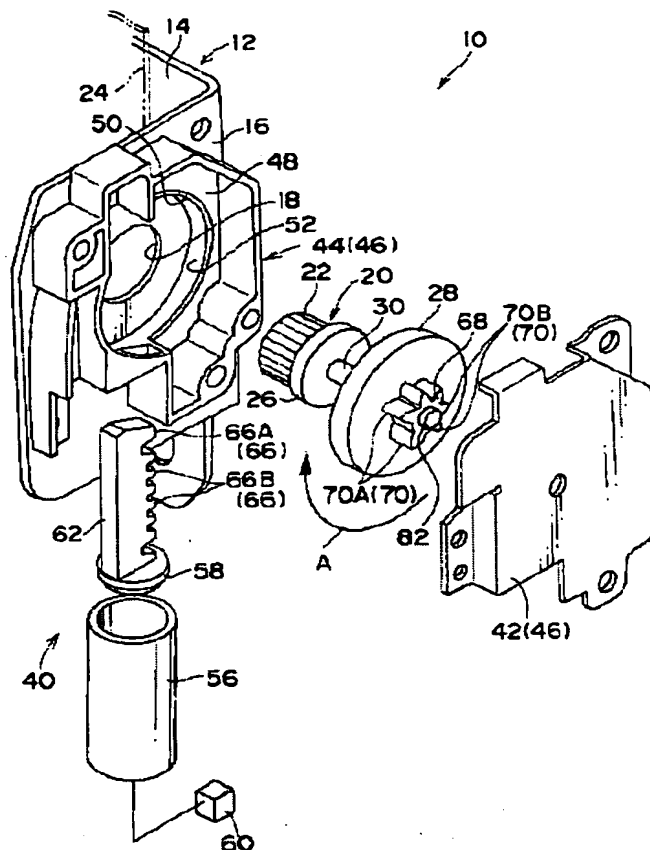
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APPLICANT : TOKAI RIKI CO LTD;

INVENTOR : HORI SEIJI;

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TITLE : WEBBING WINDING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a webbing winding device capable of miniaturizing a pretensioner and allowing the component of the pretensioner to fully withstand a load at the initial stage of its operation.

SOLUTION: Large teeth 70A larger than other small teeth 70B are formed at the portion of the external teeth 70 of a pinion 68 meshed with the rack teeth 66 of a rack 62 when the pretensioner 40 is operated, and a large tooth 66A larger than other small teeth 66B is formed on the rack teeth 66 meshed with the large teeth 70A. Since the large teeth 66A, 70A are larger than the small teeth 66B, 70B, their mechanical strength is high, thereby the rack teeth 66 and the external teeth 70 can withstand the shock at an operation start. The shock is gradually reduced thereafter, thus the small teeth 66B, 70B can withstand the load. Pitches can be reduced by forming the small teeth 66B, 70B, and the pinion 68 and the rack 62 can be miniaturized.

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